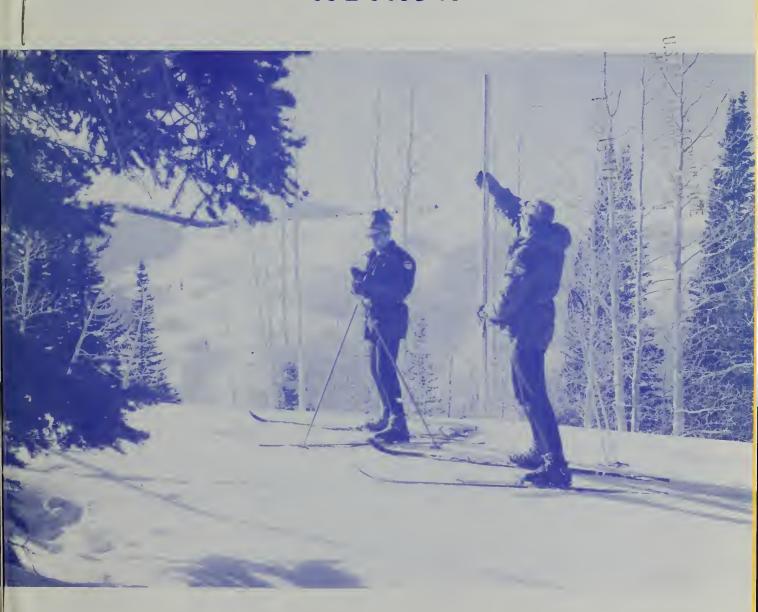
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Do not assume content reflects current scientific knowledge, policies, or practices.



Reserve1.96 R31Fsn WATER SUPPLY OUTLOOK FOR NEVADA



U. S. DEPARTMENT of AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with

NEVADA DEPARTMENT of CONSERVATION and NATURAL RESOURCES DIVISION of WATER RESOURCES

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

MAR. 1, 1977

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.

ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 841 38
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



You may have less Irrigation water this year than ever before.

SNOW COURSE MEASUREMENTS MADE ON MARCH 1, 1977 CONTINUE TO INDICATE THAT MANY AREAS WILL HAVE SEVERE TO CRITICAL WATER SHORTAGES. STUDY THE ATTACHED WATER SUPPLY FORECAST CAREFULLY FOR STREAM FLOW AND/OR RESERVOIR STORAGE FIGURES THAT CONCERN YOUR AREA. KEEP IN TOUCH WITH YOUR IRRIGATION DISTRICT OR OTHER OFFICIALS FOR ESTIMATES OF THE SUPPLY AVAILABLE FOR YOU. YOU MAY FIND YOU'LL NEED TO CHANGE CROPS, PLANTED ACREAGE, TIMING OF WATER APPLICATION OR EFFICIENCY OF YOUR WATER DISTRIBUTION SYSTEM. THESE ARE SOME OF THE EARLY DECISIONS AND PLANS YOU MAY HAVE TO MAKE:

- 1. Change to crops which require less water.
- 2. Reduce the crop acreage. Naturally, this will affect the fertilizer you order and the amount of seed you buy. Be sure unplanted land has cover crops to prevent wind erosion.
- 3. Check out your irrigation systems carefully. Make certain that ditches have no water-wasting weeds or debris to slow delivery; that sprinkler heads don't have leaks, pipes have tight connections and pumps work properly. If new parts or equipment are needed, purchase them soon.
- 4. Plant only the best land it makes most efficient use of water. If your soil has been mapped, local Soil Conservation Service personnel can guide you. If not mapped, they can still give you general information.
- 5. Maintain close contact with the Soil Conservation Service or your local Conservation District for the latest water supply forecasts, and for soil information. SCS has just published water conservation TIPS pamphlets for irrigators, farmers and ranchers. Get copies.
- 6. Maintain close contact with the Agricultural Stabilization and Conservation Service county office. Funds for cost sharing on special water stretching practices may be made available because of the drought situation. ASCS also administers the Federal Disaster Assistance program.
- 7. Do the same with your closest Farmers Home Administration office. Special loans may become available.
- 8. Do the same with the local Cooperative Extension Service office for current information on crops, feed supply and marketing.

SCS, ASCS AND FMHA ARE LISTED IN THE PHONE BOOK UNDER "U.S. GOVERNMENT, AGRICULTURE, DEPARTMENT OF." THE EXTENSION SERVICE IS USUALLY LISTED WITH LOCAL COUNTY OFFICES.



WATER SUPPLY OUTLOOK FOR NEVADA

and FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

Released by

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STATE CONSERVATIONIST SOIL CONSERVATION SERVICE RENO, NEVADA

In Cooperation with

NORMAN S. HALL

DIRECTOR
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SOIL CONSERVATION SERVICE P. O. BOX 4850 RENO, NEVADA

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WATER SUPPLY OUTLOOK FOR NEVADA

THE WATER SUPPLY OUTLOOK FOR NEVADA THIS SEASON CONTINUES TO BE VERY POOR. SEVERE SHORTAGES WILL BE EXPERIENCED IF PRESENT CONDITIONS CONTINUE. STREAMFLOW FORECASTS ARE MINIMUM WITH SEVERAL BEING LOWER THAN LAST YEAR'S STREAMFLOW.

SNOWPACK MEASUREMENTS FOR MARCH 1 INDICATE ONLY 15 TO 25 PERCENT OF THE 1958-72 AVERAGE. THERE IS NO PERCENTAGE INCREASE FROM LAST MONTH'S MEASUREMENTS. THE STORMS OCCURRING NEAR THE END OF THE MONTH ADDED ONLY SMALL AMOUNTS OF WATER.

RESERVOIR STORAGE IS POOR WITH THE EXCEPTION OF WILDHORSE, RYE PATCH, LAKE MEAD AND MOHAVE. COMBINE TOTALS OF LAKE TAHOE, BOCA, LAHONTAN, TOPAZ AND BRIDGEPORT ARE ONLY 392,000 ACRE-FEET COMPARED TO AN AVERAGE OF 729,000 ACRE-FEET AND LAST YEAR'S 830,000 ACRE-FEET.

East Slope Sierra Nevada

March 1 snow course measurements indicate that water contents of the snowpack is still minimal. The snowpack is only 25 percent in the Lake Tahoe, Truckee, Walker and Carson basins. Present snowpack is less than last year's with ranges of 26 percent in the Walker to 42 percent in the Tahoe Basin; Donner Summit requires 28.2 inches of water to attain the April 1 average. Other snow courses and the amount of water needed to reach April 1 are: Lake Lucille 44.0 inches; Squaw Valley 34.4 inches; Marlette Lake 15.5 inches; Independence Lake 33.4 inches; Mount Rose 28.0 inches and Sonora Pass 18.5 inches.

Streamflow forecasts are for record low streamflow this summer. They are lower than last year's flows, many being the lowest on record. Lake Tahoe rise forecast for April 1 to high is only .15 feet. The Truckee River April 1 to July 31 forecast is 40.000 acre-feet for only 15 percent of average. The East Fork Carson near Gardnerville is forecast for 45,000 acre-feet for 23 percent of average. Other streams have similar percentage forecasts. Reservoir storage is below average. Lake Tahoe contains 165,000 acre-feet now as compared to last year's 502,000 acre-feet on March 1. Lahontan Reservoir contains 174,000 or only 85 percent of average. Topaz and Bridgeport contain 13,000 acre-feet each. There is very limited water for supplemental supplies.

Humboldt River

The Humboldt River and tributaries are forecast for minimal flows this season. Snowpack conditions are similar to the Sierras with only 25 percent average water contents. Forecasts for April 1 to July 31 range from 8 percent for the Humboldt River at Comus to 27 percent on Marys River. Reservoir storage in Rye Patch Reservoir is above average with 108,000 acre-feet or 114 percent.

Snake River

The Owyhee and Snake River drainages have snowpacks of only 20 percent, the lowest in the state. This is the direct opposite of last year's snowpack with above average snowpack.

Streamflow forecasts reflect the lack of snow with April 1 - July 31 flows near 20 percent. Wildhorse Reservoir contains 45,000 acrefeet, slightly lower than last year's 54,000 acre-feet. Streamflow to the reservoir is forecast for 3,000 acre-feet.

Northern Great Basin

The Surprise Valley and Quinn River areas have snowpack conditions similar to other areas with about 25 percent of average. Small streams will have very little snowmelt runoff.

Eastern and Central Nevada

Snowpack is 15 to 20 percent in these areas. Streamflow from snow-melt will be very limited.

Lower Colorado

The Virgin River at Virgin, Utah forecast is 17,000 acre-feet for 35 percent of average. Snowpack conditions in the Mt. Charleston area are about 15 percent of average. Lake Mead contains 21,844,000 acre-feet and Mohave contains 1,671,00 acre-feet. This is a combined total of 23,515,000 acre feet as compared to last year's 22,209,000 acre-feet.

NOTE:

The Soil Conservation Service has developed four water conservation brochures which give tips for stretching water for irrigation, pasture and range, crops and soils and yards and gardens.

Copies may be obtained from the local Soil Conservation Service and Conservation District Offices.

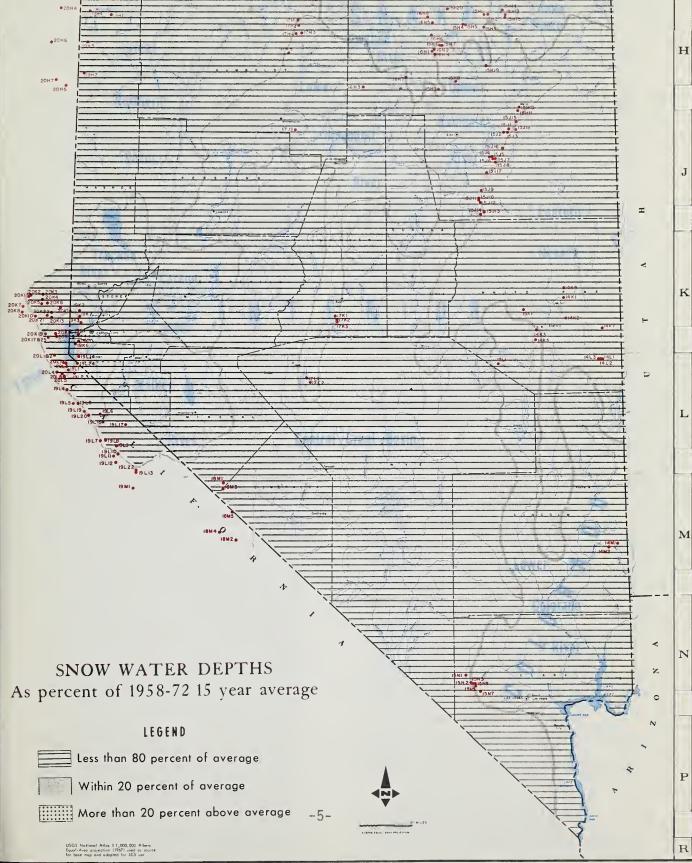
PROSPECTIVE WATER SUPPLY FOR NEVADA 15 13 17 16 18 20 G o н D G N R 17G4 **•** 20H9 20H3 H 15014 15013 Ή K 19L22 18M2 . Calo ado N LEGEND MUCH ABOVE AVERAGE WATER SUPPLY ABOVE AVERAGE WATER SUPPLY NEAR AVERAGE WATER SUPPLY BELOW AVERAGE WATER SUPPLY P MUCH BELOW AVERAGE WATER SUPPLY -3-R USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use:

INDEX TO NEVADA SNOW COURSES (By Basins)

Refer to the map on the preceeding page for Snow Course locations.

		Kelei C	o ciie	map on	CITE	pi ec	eeuing	g page	101	3110	w course	Toca Cions.				
NUMBER	NAME	SEC. TW	. RGE.	ELEV.			- 1				NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
	SNAKE RIVER	BASIN	1									ТАНОЕ				
SNAH 15H1MA 15H2 15H13A 15H15A 15H2Oa 15H14A 15H18a 15H3A 15H3A	KE RIVER Bear Creek Fox Creek Goat Creek Hummingbird Springs Merritt Mountain Pole Creek Ranger Station Red Point 76 Creek Stag Mountain	31 468 33 468 31 468 6 458 10 468 13 468 15 478 6 448 29 418	58E 60E 60E 54E 59E 61E 58E	7800 6800 8800 8945 7000 8330 7940 7100 7800							20L6STZ 20L5 20L7stz 19L2 19K6 19L3MSZ 20L4 19K4MSTZ 20L3 20L1 20L2	Echo Peak Echo Summit (Cal.) Fallen Leaf (Cal.) Fallen Bench (Cal.) Glenbrook #2 Hagans Meadow (Cal.) Lake Lucille (Cal.) Marlette Lake Richardsons #2 (Cal.) Rubicon #1 (Cal.) Rubicon #2 (Cal.)	35 6 36 36 13 36 28 18 6 6	12N 11N 13N 12N 14N 12N 12N 15N 12N 13N	17E 18E 17E 18E 18E 18E 17E 19E 18E 17E	7800 7450 6300 7300 6900 8000 8200 8000 6500 8100 7500
	HEE RIVER	25 111		7000							20K16 20K26	Tahoe City (Cal.) Tahoe City Alt. (Cal.)	6 7	15N 15N	17E 17E	6250 6300
15H4MP 16H6a 16H8a 15H5 16H1M 16H2A	Big Bend Columbia Basin Fawn Creek Gold Creek Jack Creek, Lower Jack Creek, Upper	30 45h 31 44h 2 45h 32 45h 18 42h 9 42h	53E 52E 56E 53E 53E	6700 6650 7000 6600 6800 7250							20K27 19L1 20K17M 20K25STZ	Tahoe City Cross (Cal.) Upper Truckee (Cal.) Ward Creek (Cal.) Ward Creek #2 (Cal.)	1 21 21 21	15N 12N 15N 15N	16E 18E 16E 16E	6750 6400 7000 6750
16H4 16H5 17G4a	Jacks Peak Laurel Oraw Louse Canyon (Oreg.)	28 42N 20 45N 27 409	53E	8420 6700 6440							20K14	Boca #2 (Cal.)	28	181	17E	5900
15H9MP	Taylor Canyon	35 391		6200							20K22 20K21 20K10	Brockway Summit (Cal.) Oonner Park #2 (Cal.) Oonner Summit (Cal.)	18 25	17N 17N 17N	16E 16E 14E	7100 6000 6900
HPP	INTERIC ER HUMBOLDT RIVER	R									20K7* 20K8*	Fordyce Lake (Cal.) Furnace Flat (Cal.)	34 10	18N 17N	13E 13E	6500 6700
15J17a 15J12A 15J1MP 15J3 15H7 15J9MP 15J10 15J11 15J4 15J5	American Beauty Cornal Canyon Oorsey Basin Ory Creek Fry Canyon Green Mountain Harrison Pass #1 Harrison Pass #2 Lamoille #1 Lamoille #2	32 31 N 27 28 M 28 35 N 5 34 N 31 43 N 23 29 N 9 28 N 16 28 N 15 32 N 14 32 N	57E 60E 60E 54E 57E 57E 57E 58E 58E	7800 8500 8100 6500 6700 8000 6600 7400 7100 7200							20K4MSTPZ 20K3 20K5 19K3 19K2 19K7 20K6 20K19 20K13M 20K2* 20K1*	Independence Camp (Cal.) Independence Lake (Cal.) Independence Lake (Cal.) Little Valley Mt. Rose Mt. Rose Ski Area Sage Hen Creek (Cal.) Squaw Valley #2 (Cal.) Truckee #2 (Cal.) Webber Lake (Cal.)	34 14 9 17 7 30 7 6 22 29 30	19N 19N 18N 16N 17N 17N 18N 15N 17N 19N	15E 15E 15E 19E 19E 16E 16E 16E 14E	7000 6500 8450 6300 9000 9000 6500 7500 6400 7000 8000
15J6M 15J7 15JBP	Lamoille #3 Lamoille #4 Lamoille #5	24 32N 19 32N 31 32N	59E	7700 8000 8700					-		CARS	ON RIVER				
15J18a 15J16a 15H6MP 15J2 15H8 15H10P 15H11A	Pole Canyon Robinson Lake Roded Flat Ryan Ranch Tremewan Ranch Trout Creek, Lower Trout Creek, Upper.	31 35N 23 33N 36 43N 1 34N 9 39N 28 37M 4 36M	61E 59E 53E 59E 55E 61E	9140 9200 6800 5800 5700 6900 B500							19L5 19L4 19K5 19L19a 19L16a 19L06a 19L1BAS 19L20a	Blue Lakes (Cal.) Carson Pass, Upper (Cal.) Clear Creek Ebbetts Pass (Cal.) Fish Valley, Upper (Cal.) Poison Flat (Cal.) Wet Meadows Lake (Cal.) Wolf Creek (Cal.)	6 17	9 N 1 O N 1 4 N 8 N 7 N 8 N 9 N 8 N	19E 18E 19E 20E 22E 21E 19E 20E	8000 8600 7300 8700 8050 7900 8100 8000
	ER HUMBOLDT RIVER	10 17	425	6600							UALK	ED DIVED				
17K1 17K2 17K3 17H2 17H1 17L1 17L2 17U2 17H4 17H5 17H3 16H3AP 16H7	Big Creek Camp Ground Big Creek Mine Big Creek, Upper Buckskin, Upper Buckskin, Upper Corral, Lower Corral, Upper Golconda #2 Granite Peak Lamance Creek Martin Creek Midas Toe Jam a	10 17/ 23 17/h 26 17/h 25 45/h 11 45/h 12 11/h 20 11/h 22 35/h 22 44/h 13 42/h 18 39/h 29 40/h	43E 43E 39E 39E 40E 41E 39E 39E 38E 40E 46E	6600 7600 7800 6700 8200 7500 8000 6000 7800 6000 6700 7200 7700							19L11 19L10 19L12A 19L8 19L17a 19L7M 19M1* 19L13 19L22MSZ	Buckeye Forks (Cal.) Buckeye Roughs (Cal.) Center Mountain (Cal.) Leavitt Meadows (Cal.) Lobdell Lake (Cal.) Sonora Pass (Cal.) Tioga Pass (Cal.) Virginia Lakes (Cal.) Virginia Lakes Ridge Willow Flat (Cal.)	20 15 4 4 20 1 30 5 32 21	4N 4N 3N 5N 7N 5N 1M 2N 3N 5N	23E 23E 23E 22E 24E 21E 25E 25E 25E 23E	8500 7900 9400 7200 9200 8800 9900 9500 9200 8250
EAST	TERN NEVADA											COLORA	00			
14L1 14L2 14L3 14K2 14K1 15J13 15J14 15J15 14K8 14K3 15K1 14K7 14K7	Baker #1 Baker #2 Baker #2 Berry Creek Bird Creek Cave Creek Hager Canvon Hole-In-Mountain Kalamazoo Creek Murray Summit Robinson Summit Silver Creek #2 Ward Mountain #2	29 13h 30 13h 25 13h 26 17h 34 19h 25 27h 6 35h 34 20h 25 16h 30 16h 25 15h	69E 68E 65E 65E 57E 57E 61E 65E 62E 61E 69E	7950 8950 9250 9100 7500 7500 8000 7400 7250 7600 8000 8900							LOWE 15N5 15N3 15N8 14M1 14M1 14M2 15N7 15L1	R COLORADO RIVER Kyle Canyon Lee Canyon #2 Lee Canyon #3 Mathew Canyon Pine Canyon Rainbow Canyon White River #1	27 9 10 10 23 6 31	19S 19S 19S 6S 6S 20S 13N	56E 56E 56E 70E 69E 57E 59E	8200 9200 8500 6000 6200 8100 7400
CEN	TRAL GREAT BASIN															
18M2 18M5a 15N2 18M1 18M3a 18M4a 15N1	Campito Mountain (Cal.) Chiatovich Flat Clark Canyon Montgomery Pass Pinchot Creek Piute Pass (Cal.) Trough 5prings	19 59 32 29 8 193 4 1M 28 1M 33 49 23 189	34E 56E 33E 33E 33E	10200 10500 9000 7100 9300 11700 8500		۵						LEGEND				
NOR	THERN GREAT BASIN											NUMBERING SYSTEM (EX	AMPLE)			
19H1 20H5 20H6 18G6a 18H1 20H3a 20H7 19H3 19H2 19H4a 20H9 17G5a 17H6a	Bald Mountain Barber Creek (Cal.) Cedar Pass (Cal.) Oenio Creek (Oreg.) Oisaster Peak Oismal Swamp (Cal.) Eagle Peak (Cal.) 4g-Mountain Hays Canyon Little Bally Mountain Mt. Bidwell Oregon Canyon (Oreg.) Quinn Ridge	17 45h 23 39h 12 43h 14 41S 8 47h 31 48h 35 40h 7 42h 1 39h 8 45h 6 47h 9 40S 9 47h	16E 14E 34E 34E 17E 15E 19E 18E 19E 16E 40E	6720 6500 7100 6000 6500 7200 6000 6400 6000 7200 7240 6300							19K4S SM 19K4M SM 19K4A SM 19K4P SM 19K4MP SM 19K4MP SM 19K4SIZ SM Te	now Course Only sow Course and Snow Pillow sow Course and Soil Moistur sow Course and Aerial Marke sow Course, Soil Moisture a sow Course, Soil Moisture a sow Course, Snow Pillow and ilemetered. letters M, a, p, s, t, z, Moisture Station, Aerial t, Snow Pillow, Temperature	r ipitati nd Aeri nd Pred Temper indicas Marker	ial Ma ripita rature te no i Stori	rker tion Ga Radio snow co zge Pre	urse, cipi-
20H4 18G5a	Reservation Creek (Cal.) Trout Creek (Oreg.)	12 46N 10 415		5900 7800			-				*Located	l on adjacent watershed				

SNOW WATER DEPTHS 17 20 16 13 19 R E G 20 H 5 SNOW WATER DEPTHS As percent of 1958-72 15 year average LEGEND



17-L-22025A

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All averages are for 1958-72 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
TRUCKEE RIVER				
Galana Creek near Steamboat, NV	April-July	1.8	42 ,	4.4
Little Truckee River above Boca, CA 1/	April-July	12	14	89
Truckee River at Farad, CA 1/2/	April-July	40	15	267
Lake Tahoe Rise in Feet (assuming gates closed) <u>2</u> /	March-High April-High	.30	17 10	1.74
Steamboat Creek at Steamboat	April-July	1.8	31	5.6
CARSON RIVER				and the second
East Carson near Gardnerville, NV	March-July April-July	52 45	26 23	198 182
West Carson at Woodfords, CA	March-July April-July	17 14	30 27	56 52
Carson River near Carson City, NV	March-July April-July	28 20	14 11	201 178
Carson River near Fort Churchill, NV	March-July April-July	20 10	11	181 159
WALKER RIVER				
East Walker near Bridgeport, CA <u>1</u> /	March-Aug. April-Aug.	14	19 12	75 68
West Walker below Little Walker near Coleville, CA	March-July April-July	50 45	33 31	151 145
SNAKE RIVER	500 6		- ,	*
Owyhee River near Owyhee, NV <u>1</u> /	March-July April-July	16 12	20 18	81 68
Owyhee River near Gold Creek, NV <u>1</u> /	March-July April-July	5	22 17	23 18
South Fork Owyhee Rv. nr White Rock, NV	April-July	5	5	94
Salmon Falls Creek near San Jacinto, NV	March-July March-Sept.	24 26	30 31	80 84
COLORADO RIVER				
Virgin River at Virgin, UT	April-June	17	35	48

STREAMFLOW FORECASTS (Thousand Acre Feet) as of: March 1, 1977

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
HUMBOLDT RIVER				
Lamoille Creek near Lamoille, NV	March-July April-July	8 7	28 25	29 28
South Fork Humboldt above Dixie Creek	March-July April-July	17 15	24 23	71 66
Marys River above Hot Springs, NV	March-July April-July	12 9	32 27	38 34
North Fork Humboldt at Devils Gate, NV	March-July April-July	7 5	18 16	40 32
Humboldt River at Palisade, NV	March-July April-July	30 20	14 10	218 193
Humboldt River at Comus, NV	March-July April-July	20 12	12	171 149
Kingston Creek near Austin, NV	April-July	1.0	26	3.7
Little Humboldt Rv. nr Paradise Va., NV	April-July	1	10	10
Martin Creek near Paradise, NV	March-July April-July	5 4	26 25	19 16
Reese River near Ione, NV	April-July	1.4	23	6
Rock Creek near Battle, Mountain, NV GREAT NORTHERN BASIN	April-July	1.9	10	19
Bidwell Creek near Fort Bidwell, CA	April-July	3.0	26	11.5
Mill Creek near Cedarville, CA	April-July	1.5	32	4.7
Deep Creek near Cedarville, CA	April-July	1	30	3.3
Eagle creek near Eagleville, CA	April-July	1.7	40	4.3
Quinn River near McDermitt, NV	April-July	1	40	17
East Fork Quinn Rv. near McDermitt, NV <u>EASTERN NEVADA</u>	April-July	2	17	12
Franklin River near Arthur, NV	April-July	1.7	24	7.2
Steptoe Creek near Ely, NV	April-July	0.8	29	2.7
<pre>1/ Corrected for storage</pre>				
2/ Forecast issued by Truckee Basin Wa	ter Committe	е		

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FORFOLD TO WIT	PEAK FLOW (SECOND	FEET)
FORECAST POINT	Forecast Range	Average +
East Fork Carson River near Gardnerville, NV Carson River near Carson City, NV Carson River near Fort Churchill, NV West Walker River below Little Walker near Coleville, CA	550 - 750 450 - 650 350 - 550 650 - 850	1728 1901 1730 1532

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson River near Gardnerville, NV	200	6/10	7/20

SOIL MOISTURE MEASUREMENTS

Profile	(Inches)	S	Soil Moisture (Inches)			
Depth	Capacity	Date	This Year	Average †		
				V		
72 48 42 48	16.9 16.7 11.0 15.1	NS 2/23/77 2/23/77	4.2	11.5* 15.0* 9.0* 12.5*		
34 50	6.1 3.7	2/26/77 NS	2.2	4.5*		
				6		
48 40	8.3 5.0	NS 2/26/77	1.6	7.3* 2.3*		
		1				
	72 48 42 48 34 50	72 16.9 48 16.7 42 11.0 48 15.1 34 6.1 50 3.7	72 16.9 48 16.7 NS 42 11.0 2/23/77 48 15.1 2/23/77 34 6.1 2/26/77 50 3.7 NS	72 16.9 48 16.7 NS 42 11.0 2/23/77 4.2 48 15.1 2/23/77 9.2 34 6.1 2/26/77 2.2 50 3.7 NS		

RESERVOIR STORAGE (Thousand Acre Feet) as of March 1, 1977

		Usable		Usable Storage	
Basin or Stream	RESERVOIR	Capacity	This Year	Last Year	Average
Owyhee	Wild Horse	72	45	54	18
Lower Humboldt	Rye Patch	157	108	164	95
Colorado	Mohave	1,810	1,671	1,681	1,689
Colorado	Mead	27,217	21,844	20,528	17,224
Tahoe	Tahoe	732	165	502	443
Truckee	Boca	41	27	30	11
Truckee	Stampede	220	40	140	**
Truckee	Prosser***	30	0.1	10	8*
Carson	Lahontan	291	174	215	204
West Walker	Topaz	59	13	47	40
*** Flood control	Bridgeport age August 1, 1969. use allocation of n November 1 and Ap		13	36	31

TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average +
October 1	574	1,037	718
January 1	488	1,005	714
February 1	509	1,015	782
March 1	545	1,048	843
April 1		1 048	893
May 1		1,037	934

+ 1958-1972 period.

The abave data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahantan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-Feet.

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NOW COURSE MEASUREMENTS			THIS YEAR		PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE	T Clausia	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	nt (inches) Average
NAME	Elevation				Last real	Average
LAKE TAHOE Echo Peak (CA) Echo Summit (CA) Freel Bench (CA) Glenbrook #2 Hagans Meadow Heavenly Valley Lake Lucille (CA) Marlette Lake Richardsons #2 (CA) Rubicon #1 (CA)	7800 7450 7300 6900 8000 8800 8200 8000 6500 8100	2/26/77 2/28/77 2/26/77 2/25/77 2/26/77 2/26/77 2/24/77 2/26/77 2/26/77	24 30 11 16 17 26 60 27 20 42	5.6 0.4 2.6 3.7 3.9 7.6 14.4 5.5 4.8 10.5	9.0 10.3 6.0a 4.3 7.3 13.0 29.7 8.1 6.4	29.6 12.1 10.6 16.1 - 18.6 15.6 40.0
Rubicon #2 (CA) Rubicon #2 (CA) Tahoe City Cross (CA) Upper Truckee (CA) Ward Creek #2 (CA) Ward Creek #3 (CA) TRUCKEE RIVER	7500 6750 6400 7000 6750	2/26/77 2/27/77 2/26/77 2/24/77 2/24/77	23 23 10 38 46	5.6 6.8 2.4 9.6 11.6	8.6 4.5 14.0 14.1	10.1 35.1
Boca #2 (CA) Brockway Summit (CA) Castle Creek Donner Park #2 (CA) Donner Summit (CA) Fordyce Lake (CA) Furnace Flat (CA) Independence Camp (CA) Independence Creek (CA) Independence Lake (CA) Little Valley Mount Rose Mount Rose Ski Area Sage Hen Creek (CA) Squaw Valley #2 (CA) Truckee #2 (CA) Webber Lake Webber Peak	5900 7100 7400 6000 6900 6500 6700 7000 6500 8450 6300 9000 8850 6500 7500 6400 7000 8000	2/27/77 2/28/77 3/1/77 2/27/77 2/25/77 2/25/77 2/25/77 2/24/77 2/24/77 2/24/77 2/24/77 2/24/77 2/24/77 2/24/77 2/24/77 2/28/77 NS	7 18' 39 17 31 28 39 23 14 37 13 36 50 19 51	1.9 4.2 11.8 5.3 8.2 9.7 12.3 5.6 2.9 9.1 3.0 7.9 10.0 4.2 12.9 3.6	4.4 2.9 14.6 6.9 11.2 12.4 14.7 7.5 3.4 14.6 4.1 9.8 14.4 5.8 17.7 3.8	6.2 17.5 15.8 32.5 31.5 36.1 19.6 12.2 35.6 8.5 -
CARSON RIVER Blue Lakes Carson Pass, Upper (CA) Clear Creek Ebbetts Pass AM (CA) Ebbetts Pass #2 (CA) Fish Valley, Upper (CA) Poison Flat Wet Meadows Lake AM (CA) Wet Meadows #2 (CA) Wolf Creek AM (CA)	8000 8600 7300 8700 8700 8050 7900 8050 8050 8050	2/25/77 2/28/77 2/25/77 2/26/77 2/26/77 2/26/77 2/26/77 2/26/77 2/26/77	39 22 17 33 29 11 18 21 29 24	11.0a 6.3 3.1 10.0a 8.8 2.9 5.1 5.9a 8.3 7.3a		31.1 11.9 26.6 13.1 13.9 23.0

Buckeye Roughs (CA)	OW COURSE MEASUREMENTS	·		THIS YEAR		PAST Water Con	tent (instant
Buckeye Roughs (CA) 7900 2/22/77 12 2.7 3.6 - Center Mountain 9400 2/26/77 29 7.8 12.4 33.9 Leavitt Meadow (CA) 7200 2/26/77 13 2.2 2.3 14.4 Sawmill Ridge (CA) 8750 2/26/77 13 2.2 2.3 14.4 Sawmill Ridge (CA) 8750 2/26/77 18 4.2 3.3 - Sonora Pass (CA) 8800 2/26/77 19 5.3 4.8 21.5 Tioga Pass (CA) 9900 2/25/77 25 7.6 8.8 - Virginia Lakes (CA) 9500 2/26/77 22 5.4 3.0 15.5 Virginia Lakes Ridge (CA) 9200 2/26/77 23 5.0 4.3 - Willow Flat (CA) 9900 2/26/77 10 2.5 2.5 - NORTHERN GREAT BASIN Bald Mountain AM 6720 2/24/77 4 0.4a 0.5a 3.4 Barber Creek (CA) 6500 2/23/77 9 2.0 8.2 10.0 Cedar Pass (CA) 7100 2/22/77 12 3.0 11.6 13.1 Denio Creek AM (OR) 6000 3/4/77 1 0.1a 1.3a 0.5 Disaster Peak 6500 2/24/77 10 1.8e 8.4 13.4 Dismal Swamp AM (CA) 7000 3/24/77 10 1.8e 8.4 13.4 Dismal Swamp AM (CA) 7000 2/24/77 15 3.0a 19.1a 14.1 Eagle Peak (CA) 7200 NS 49 Mountain 6000 2/25/77 8 1.5 3.7 3.7 Hays Canyon 6400 2/23/77 4 0.6 1.2 3.2 Little Bally Mountain AM 6000 2/24/77 16 3.9 18.4 - Oregon Canyon AM (OR) 7240 2/24/77 16 3.9 18.4 - Oregon Canyon AM (OR) 7240 3/4/77 1 0.1a 1.3a 1.3a 0.5 North Star 6200 2/24/77 16 3.9 18.4 - Oregon Canyon AM (OR) 7240 3/4/77 1 0.1a 1.4a 1.8 Reservation Creek (CA) 5900 2/25/77 11 3.0 13.6 9.4 Trout Creek AM (OR) 7800 3/4/77 1 0.1a 1.4a 1.8 Reservation Creek (CA) 5900 2/25/77 11 3.0 13.6 9.4 Trout Creek AM (OR) 7800 3/5/77 21 4.8 10.4 9.0 Goat Creek 8800 3/5/77 33 7.9 18.8 16.8 Fox Creek 8800 3/5/77 37 7.9 18.8 16.8 Red Point AM 7000 2/28/77 11 2.0a 6.6 5.8 Red Point AM 7000 2/28/77 18 4.3 9.9a 10.0			Date of Survey		Water Content (Inches)		Average
Center Mountain 9400 2/26/77 29 7.8 12.4 33.9 Leavitt Meadow (CA) 7200 2/26/77 8 2.0 1.6 - Lobdell Lake 9200 2/26/77 13 2.2 2.3 14.4 Sawmill Ridge (CA) 8750 2/26/77 19 5.3 4.8 21.5 Tioga Pass (CA) 9900 2/25/77 19 5.3 4.8 21.5 Tioga Pass (CA) 9900 2/26/77 19 5.3 4.8 21.5 Virginia Lakes (CA) 9500 2/26/77 22 5.4 3.0 15.5 Virginia Lakes Ridge (CA) 9200 2/26/77 23 5.0 4.3 - Willow Flat (CA) 9900 2/26/77 10 2.5 2.5 - Millow Flat (CA) 600 2/23/77 9 2.0 8.2 10.0 Cedar Pass (CA) 7100 2/22/77 12 3.0 11.6 13.1 Denio Creek (CA) 6500 2/23/77 9 2.0 8.2 10.0 </th <th>WALKER RIVER</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	WALKER RIVER						
Bald Mountain AM Barber Creek (CA) Barber Creek	Center Mountain Leavitt Meadow (CA) Lobdell Lake Sawmill Ridge (CA) Sonora Pass (CA) Tioga Pass (CA) Virginia Lakes (CA) Willow Flat (CA)	9400 7200 9200 8750 8800 9900 9500 9200 9900	2/26/77 2/26/77 2/26/77 2/26/77 2/25/77 2/26/77 2/26/77	29 8 13 18 19 25 22 22	7.8 2.0 2.2 4.2 5.3 7.6 5.4 5.0	12.4 1.6 2.3 3.3 4.8 8.8 3.0 4.3	14.4* 21.5
Bear Creek 7800 3/5/77 38 8.6 18.8 17.3 Fox Creek 6800 3/5/77 21 4.8 10.4 9.0 Goat Creek 8800 3/5/77 28 6.0 14.7 16.0 Hummingbird Springs 8945 3/5/77 33 7.0 19.4 19.4 Merritt Mountain AM 7000 2/28/77 11 2.0a 6.6 5.8 Pole Creek Ranger Station 8330 3/5/77 35 7.9 18.8 16.8 Red Point AM 7940 NS 9.1 76 Creek 7100 3/5/77 18 4.3 9.9a 10.0	Bald Mountain AM Barber Creek (CA) Cedar Pass (CA) Denio Creek AM (OR) Disaster Peak Dismal Swamp AM (CA) Eagle Peak (CA) 49 Mountain Hays Canyon Little Bally Mountain AM Mount Bidwell North Star Oregon Canyon AM (OR) Quinn Ridge AM Reservation Creek (CA)	6720 6500 7100 6000 6500 7000 7200 6000 6400 6000 7240 6200 7240 6300 5900	2/23/77 2/22/77 3/4/77 2/24/77 2/25/77 2/23/77 2/24/77 2/24/77 2/24/77 3/4/77 2/25/77	9 12 1 10 15 8 4 6 14 16 4 T	2.0 3.0 0.1a 1.8e 3.0a 1.5 0.6 0.6a 3.4 3.9 0.4a 0.1a 3.0	8.2 11.6 1.3a 8.4 19.1a 3.7 1.2 3.4a 23.0 18.4 4.2 1.4a 13.6	0.5* 13.4 14.1
July Hourist Fair	Bear Creek Fox Creek Goat Creek Hummingbird Springs Merritt Mountain AM Pole Creek Ranger Station Red Point AM	6800 8800 8945 7000 8330 7940	3/5/77 3/5/77 3/5/77 2/28/77 3/5/77 NS	21 28 33 11 35	4.8 6.0 7.0 2.0a 7.9 4.3	10.4 14.7 19.4 6.6 18.8	19.4 5.8 16.8

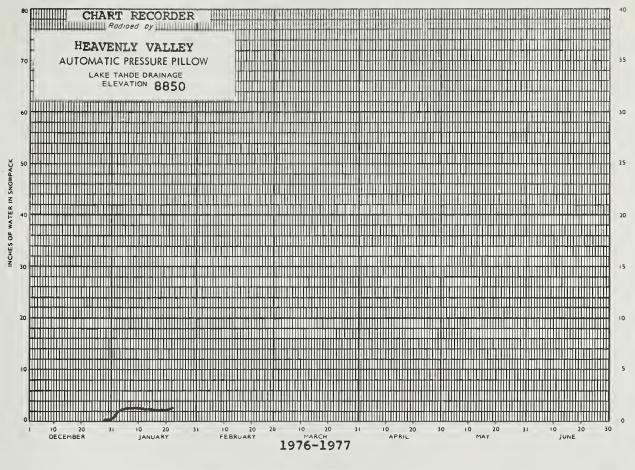
HOW COURSE MEASUREMENTS			THIS YEAR			PAST RECORD		
DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Conte	nt (inches) Average		
OWYHEE RIVER	1							
Big Bend Columbia Basin AM Fawn Creek AM Gold Creek Jack Creek, Lower Jack Creek, Upper Jacks Peak Laurel Draw Louse Canyon AM (OR)	6700 6650 7000 6600 6800 7250 8420 6700 6440 6200	2/23/77 2/28/77 2/28/77 2/23/77 2/23/77 2/23/77 2/23/77 2/23/77	8 6 8 7 -12 28 11	0.8 0.8a 1.1a 0.7 0.5 2.2 6.2 2.1	8.4 9.0a 7.2a 6.3 5.2 9.6 20.6 7.8 3.4 2.5	7.6 8.1, 4.4, 4.9 7.7 - 6.4 2.8, 4.1		
UPPER HUMBOLDT RIVER								
American Beauty AM Corral Canyon Dorsey Basin Dry Creek Fry Canyon Green Mountain Harrison Pass #1 Harrison Pass #2 Lamoille #1 Lamoille #3 Lamoille #5 Pole Canyon Robinson Lake AM Rodeo Flat Ryan Ranch Smith Creek Tent Mountain AM Tremewan Ranch Trout Creek, Lower Trout Creek, Upper	7800 8500 8100 6500 6700 8000 6600 7400 7100 7700 9200 6800 5800 7700 7000 8350 5700 6900 8500	2/28/77 2/24/77 2/24/77 2/23/77 2/24/77 2/24/77 2/24/77 2/24/77 2/24/77 2/24/77 2/28/77 2/25/77 2/28/77 2/28/77 2/28/77 2/28/77 2/28/77 2/28/77 2/24/77 2/24/77 2/24/77	6 19 16 4 6 15 3 5 11 16 29 19 3 5 T 16 1	1.3a 3.8 3.6 0.6 0.8 3.2 0.5 0.7 2.3 3.2 5.6 3.1 0.3a 0.7 0.1 3.2 0.1a 0.4 1.2 4.5	7.5 14.8 10.6 3.1 7.5 9.7 4.5 5.8 8.0 8.4 19.9 -24.5 5.5 0.0 7.0a 18.0a 1.2 4.2 16.5	8.3° 12.9 10.3 2.6 6.3 11.2 3.7° 5.4° 8.2 9.9 22.0 6.9° 22.1° 4.9 0.9°		
LOWER HUMBOLDT RIVER								
Big Creek Campground Big Creek Mine Big Creek, Upper Buckskin, Lower Buckskin, Upper Corral, Lower Golconda #2 Granite Peak Lamance Creek Martin Creek Midas AM Toe Jam AM	6600 7600 7800 6700 8200 7500 6000 7800 6700 7200 7700	3/1/77 3/1/77 3/1/77 2/24/77 2/24/77 NS 3/1/77 2/24/77 2/24/77 2/24/77 2/28/77	10 12 4 4 11 16 10 11 T	0.6 1.9 2.7 0.7 0.4 1.7 3.5 2.0e 2.3 0.1a 0.1a	4.6 5.0 7.5 6.4 8.1 2.0 4.7 11.1 6.6 4.1 1.6 7.2a	1.1 4.0 5.1 7.4 8.7 1.4 3.9 13.2 9.4 8.9 3.3 7.9		

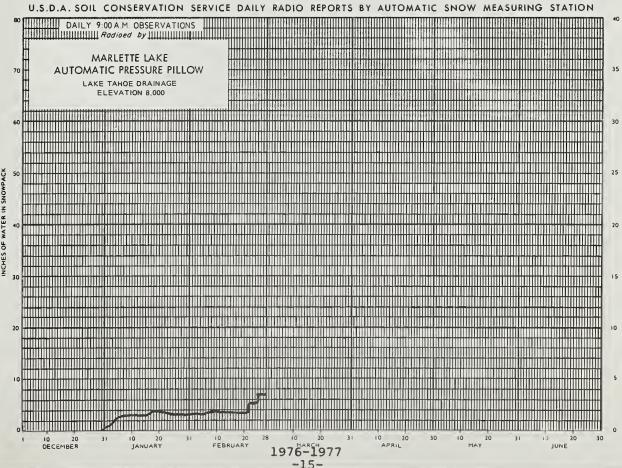
SHOW COURSE MEASUREMENTS			THIS YEAR	PAST RECORD		
DRAINAGE BASIN and/or SNOW COURSE NAME		Date of Survey	Snow Depth (inches)	Water Content (inches)	Last Year	Average
EASTERN NEVADA						
Baker #1 Baker #2 Baker #3 AM Berry Creek Bird Creek Hole-in-Mountain Kalamazoo Creek Mount Defiance AM Murray Summit Robinson Summit Silver Creek #2 AM Ward Mountain #2 AM White River #1	7950 8950 9250 9100 7500 7400 9400 7250 7600 8000 7400 7400	2/28/77 2/25/77 3/4/77 2/28/77 2/24/77 2/25/77 2/24/77 2/24/77 2/25/77 2/25/77 2/25/77	5 15 18 27 1 16 10 18 0	1.0 2.5 3.5a 5.3e 0.1 3.1 2.6 3.6a 0.0 0.1 2.2a 2.2a 0.0	4.4 9.5 10.5a 9.5a 4.6 14.6 6.2 15.5a 2.5 1.6 4.0a 3.8a 2.8	5.7 11.9 13.0 11.5 3.5 - 6.1 - 2.8 1.9 4.7 8.2 2.5*
CENTRAL GREAT BASIN						
Campito Mountain (CA) Chiatovich Flat AM Clark Canyon Montgomery Pass Pinchot Creek AM Piute Pass AM Trough Springs	10200 10500 9000 7100 9300 11700 8500	2/25/77 3/4/77 3/1/77 2/25/77 3/4/77 3/4/77 3/1/77	5 0 2 0 0 0 3	1.0 0.0 0.6 0.0 0.0 0.0	3.5 2.4 6.0 1.9 0.5 2.0 3.8	4.9* 3.2 7.3 1.3* 0.9* 4.7* 5.0*
LOWER COLORADO RIVER						
Kyle Canyon Lee Canyon #2 Lee Canyon #3 Mathew Canyon Pine Canyon Rainbow Canyon #2	8200 9000 8500 6000 6200 8100	2/28/77 2/28/77 2/28/77 2/28/77 2/28/77 2/28/77	4 5 3 0 0	1.5 1.5 1.0 0.0 0.0 3.4	7.8 8.9 7.0 0.2 1.2 9.3	9.6 9.0 7.5* 4.4 6.3 13.1*
NS No survey e Estimate						
			period is Ap.	based on 1958— ril 1 through July rker; water conter ge.	31 unless orre	rwise noted.

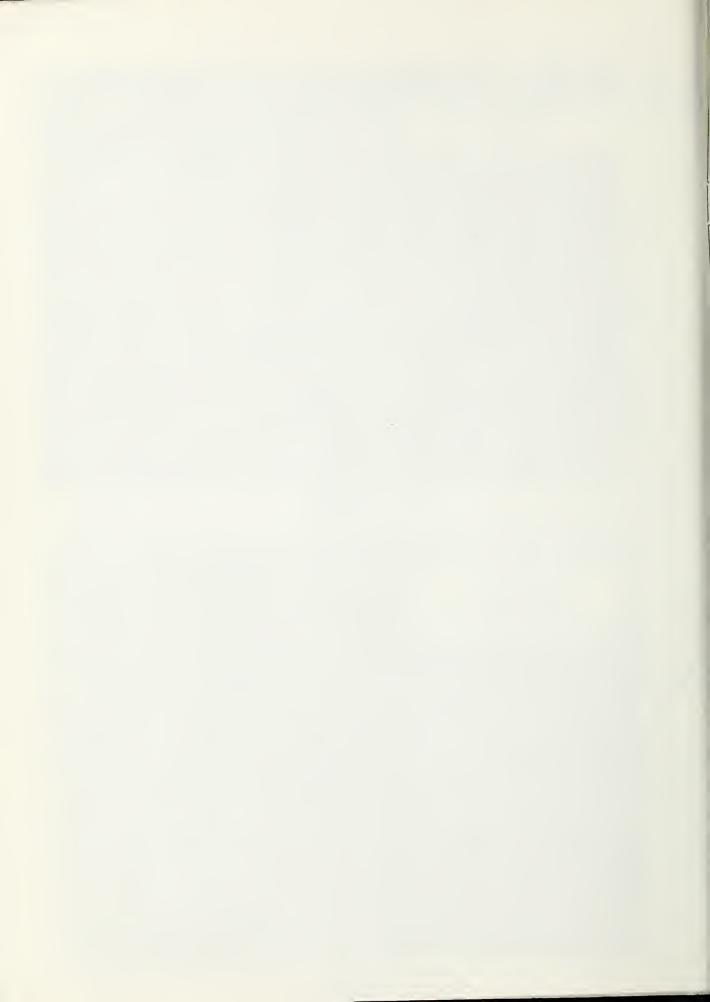
PRECIPITATION (Inches)

DRAINAGE BASIN and			RENT INFORMA	TION	FROM AF	PROX. OCT I	
PRECIPITATION GAGE LOCATION	ELEVATION	Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	Percent of Average
LAKE TAHOE-TRUCKEE							
Echo Peak Fallen Leaf	7800 6240 8000	2/26/77 2/28/77 2/26/77	4.4 2.5 2.9	3.5 3.0	12.1	23.0 10.7	-
Hagans Meadow Independence Camp Independence Creek Independence Lake	7000 6500 8450	2/24/77 2/24/77 2/24/77	2.8 3.1 3.0	2.3	7.9 7.1 9.9 12.7	11.9	-
Marlette Lake Mount Rose Tahoe City Cross	8000 9000	NS 2/24/77 2/27/77	2.4	4.0	5.8	12.0	-
Truckee #2 Ward Creek #3		2/28/77 2/24/77	2.6 4.8	2.8 5.3	6.0 16.3	5.2 23.9	-
CARSON RIVER							
Ebbetts Pass Poison Flat Wet Meadows	7900	2/26/77 2/26/77 2/26/77	3.5 0.2 2.3	2.6	11.8 3.0 8.7	10.24	- - -
WALKER RIVER							
Lobdell Lake Sonora Pass Virginia Lakes Ridge	8800	2/26/77 2/26/77 2/26/77	1.5 2.5 2.3	3.4	3.5 11.5 15.7	12.5 -	- - -
HUMBOLDT RIVER							
Corral Canyon Dorsey Basin Green Mountain Lamoille #3	8100 8000 7700	2/24/77 2/25/77 2/24/77 2/24/77	1.3	-	6.3 6.8 7.6 6.8	6.3	50 64
Midas Rodeo Flat Trout Creek, Lower	6800	NS 2/23/77 2/25/77	0.5	1.3	5.0 3.8	12.3 12.0	46 34
OWYHEE RIVER							
Big Bend Jacks Peak Taylor Canyon Upper Jack Creek	8420 6200	2/23/77 2/23/77 2/25/77 2/23/77	0.3 1.3 2.0 1.3	0.0	8.7 15.8 8.0 13.5	10.0 7.0	85 111
opper dack creek	7230	23/11	1.5	_	13.3		

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Agencies Cooperating in Collecting Data Contained in this Bulletin

FEDERAL

Agricultural Research Service
Bureou of Reclomotion
Fish and Wildlife Service
Forest Service
Geological Survey
Novy
Soil Conservation Service
U. S. District Court - Federal Water Master
NOAA, National Weather Service

STATE

Colifornia Cooperative Snow Surveys
California Deportment of Parks and Recreation
Colifornia Deportment of Water Resources
Colorodo River Commission of Nevado
Idoho Cooperative Snow Surveys
Nevado Association of Conservation Districts
Nevado Department of Conservation & Natural Resources
Division of Water Resources
Nevada State Forester
Oregon Cooperative Snow Surveys
Utoh Cooperative Snow Surveys
White Mountain Research Station, Univ. of Colifornia

PRIVATE

Amalgamoted Sugor Company
Kennecott Copper Corporotion
Nevodo Irrigotion District
Owyhee Project North Boord of Control
Owyhee Project South Boord of Control
Pocific Gos and Electric Compony
Pershing County Woter Conservation District
Sierro Pocific Power Compony
Truckee-Corson Irrigation District
Wolker River Irrigotion District
Woshoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their Cooperation is grotefully acknowledged.

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